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APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.
09/883,430	06/18/2001	Reiner Maria Jungbult	NL 000337	2789

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EXAMINER

HARPER, HOLLY R

ART UNIT

PAPER NUMBER

2879

DATE MAILED: 05/30/2003

Please find below and/or attached an Office communication concerning this application or proceeding.

Office Action Summary

Application No.

09/883,430

Applicant(s)

JUNGBULT ET AL.

Examiner

Holly R. Harper

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-- The MAILING DATE of this communication appears on the cover sheet with the correspondence address --
Period for Reply

A SHORTENED STATUTORY PERIOD FOR REPLY IS SET TO EXPIRE 3 MONTH(S) FROM THE MAILING DATE OF THIS COMMUNICATION.

- Extensions of time may be available under the provisions of 37 CFR 1.136(a). In no event, however, may a reply be timely filed after SIX (6) MONTHS from the mailing date of this communication.
- If the period for reply specified above is less than thirty (30) days, a reply within the statutory minimum of thirty (30) days will be considered timely.
- If NO period for reply is specified above, the maximum statutory period will apply and will expire SIX (6) MONTHS from the mailing date of this communication.
- Failure to reply within the set or extended period for reply will, by statute, cause the application to become ABANDONED (35 U.S.C. § 133).
- Any reply received by the Office later than three months after the mailing date of this communication, even if timely filed, may reduce any earned patent term adjustment. See 37 CFR 1.704(b).

Status

- 1) ☐ Responsive to communication(s) filed on ____.
- 2a) ☐ This action is **FINAL**. 2b) ☐ This action is non-final.
- 3) ☐ Since this application is in condition for allowance except for formal matters, prosecution as to the merits is closed in accordance with the practice under *Ex parte Quayle*, 1935 C.D. 11, 453 O.G. 213.

Disposition of Claims

- 4) ☐ Claim(s) 1-20 is/are pending in the application.
- 4a) Of the above claim(s) 6 is/are withdrawn from consideration.
- 5) ☐ Claim(s) ____ is/are allowed.
- 6) ☐ Claim(s) 1-5, 7-20 is/are rejected.
- 7) ☐ Claim(s) ____ is/are objected to.
- 8) ☐ Claim(s) ____ are subject to restriction and/or election requirement.

Application Papers

- 9) ☐ The specification is objected to by the Examiner.
- 10) ☐ The drawing(s) filed on ____ is/are: a) ☐ accepted or b) ☐ objected to by the Examiner.
- Applicant may not request that any objection to the drawing(s) be held in abeyance. See 37 CFR 1.85(a).
- 11) ☐ The proposed drawing correction filed on ____ is: a) ☐ approved b) ☐ disapproved by the Examiner.
- If approved, corrected drawings are required in reply to this Office action.
- 12) ☐ The oath or declaration is objected to by the Examiner.

Priority under 35 U.S.C. §§ 119 and 120

- 13) ☒ Acknowledgment is made of a claim for foreign priority under 35 U.S.C. § 119(a)-(d) or (f).
- a) ☒ All b) ☐ Some * c) ☐ None of:
1. ☒ Certified copies of the priority documents have been received.
2. ☐ Certified copies of the priority documents have been received in Application No. ____.
3. ☐ Copies of the certified copies of the priority documents have been received in this National Stage application from the International Bureau (PCT Rule 17.2(a)).
- * See the attached detailed Office action for a list of the certified copies not received.
- 14) ☐ Acknowledgment is made of a claim for domestic priority under 35 U.S.C. § 119(e) (to a provisional application).
- a) ☐ The translation of the foreign language provisional application has been received.
- 15) ☐ Acknowledgment is made of a claim for domestic priority under 35 U.S.C. §§ 120 and/or 121.

Attachment(s)

- 1) ☐ Notice of References Cited (PTO-892)
- 2) ☐ Notice of Draftsperson's Patent Drawing Review (PTO-948)
- 3) ☒ Information Disclosure Statement(s) (PTO-1449) Paper No(s) ____
- 4) ☐ Interview Summary (PTO-413) Paper No(s). ____
- 5) ☐ Notice of Informal Patent Application (PTO-152)
- 6) ☐ Other: ____

DETAILED ACTION

Response to Amendment

1. The Amendment to the claims, filed on 3/11/03, has been acknowledged by the Examiner.

Claims 8-20 were added.

Claim 6 was cancelled.

The 112 (2nd) rejection to claim 1 has been withdrawn.

Claim Rejections - 35 USC § 102

2. The following is a quotation of the appropriate paragraphs of 35 U.S.C. 102 that form the basis for the rejections under this section made in this Office action:

A person shall be entitled to a patent unless –

(b) the invention was patented or described in a printed publication in this or a foreign country or in public use or on sale in this country, more than one year prior to the date of application for patent in the United States.

3. Claims 1-5, 8-15, and 19 are rejected under 35 U.S.C. 102(b) as being anticipated by Kazuaki (JP 61029046).

In regard to claim 1, the Kazuaki reference discloses a cathode ray tube with a display screen (Figure 2, Element 4), an electron gun (Figure 2), and a deflection means (Figure 2, Element 5). The Kazuaki reference also discloses a centering cup with a plate containing a central aperture and two outer apertures. The centering cup has slits, and two bridges between the slits. The slits are created so that a first line drawn between a first end of the first bridge and the first end of the second bridge intersects a second line drawn between a second end of the first

bridge and a second end of the second bridge. The bisectrix of the intersecting lines is parallel to the y-axis (Figure 1).

In regard to claim 2, the Kazuaki reference discloses a plate with the three apertures, and the slits being parallel to the plate (Figure 1).

In regard to claim 3, the Kazuaki reference discloses the length of the slits being at least 50% of the diameter of the centering cup (Figure 1).

In regard to claims 4 and 5, the Kazuaki reference discloses that the centering cup has two parts that are both circular symmetric jackets (Figure 1).

In regard to claim 8, the Kazuaki reference discloses a cathode ray tube with a display screen (Figure 2, Element 4), an electron gun (Figure 2), and a deflection means (Figure 2, Element 5). The Kazuaki reference also discloses a centering cup with a plate containing a central aperture and two outer apertures. The centering cup has slits, and two bridges between the slits. The slits are created so that a first line drawn between a first end of the first bridge and the first end of the second bridge intersects a second line drawn between a second end of the first bridge and a second end of the second bridge. The bisectors of the acute angles of the intersecting lines are parallel to the y-axis (Figure 1).

In regard to claim 9 and 10, the Kazuaki reference discloses a plate with the three apertures, and the slits being parallel to the plate (Figure 1).

In regard to claim 11, the Kazuaki reference discloses the length of the slits being at least 50% of the diameter of the centering cup (Figure 1).

In regard to claim 12, the Kazuaki reference discloses a plate with tongues that are the first and second bridges (Figure 1).

In regard to claim 13, the Kazuaki reference discloses a first part with an insert that extends away from the second part (Figure 1).

In regard to claim 14, the Kazuaki reference discloses apertures that pass through the insert (Figure 1).

In regard to claim 15, the Kazuaki reference discloses that the centers of the tongues align in the y direction (Figure 1).

In regard to claim 19, the Kazuaki reference discloses that the second part forms a jacket (Figure 1).

Claim Rejections - 35 USC § 103

4. The following is a quotation of 35 U.S.C. 103(a) which forms the basis for all obviousness rejections set forth in this Office action:

(a) A patent may not be obtained though the invention is not identically disclosed or described as set forth in section 102 of this title, if the differences between the subject matter sought to be patented and the prior art are such that the subject matter as a whole would have been obvious at the time the invention was made to a person having ordinary skill in the art to which said subject matter pertains. Patentability shall not be negated by the manner in which the invention was made.

5. Claims 7 and 20 are rejected under 35 U.S.C. 103(a) as being unpatentable over Kazuaki (JP 61029046).

The applicant fails to identify the use of a slit with a width of .1mm to solve any problem or yield any unexpected result that is not within in the scope of the teachings relied upon. It has been held that where the general conditions of a claim are disclosed in the prior art, discovering the optimum or workable ranges involves only routine skill in the art. Thus it would have been an obvious design choice to one having ordinary skill in the art to provide a slit with a width of

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.1 mm to the centering cup claimed by the applicant, since optimization of workable ranges is considered within the skill of the art.

6. Claims 16-18 are rejected under 35 U.S.C. 103(a) as being unpatentable over Kazuaki (JP 61029046) in view of Priere et al. (USPN 5,223,769).

All the limitations of claims 8 and 9 are discussed above.

In regard to claims 16-18, the Kazuaki reference discloses a cathode ray tube with the specified electron gun and centering cup limitations. Kazuaki appears to be silent to the use of a second coil around the neck of the CRT. The Priere reference teaches that an additional coil, a scan velocity modulation coil, is known in cathode ray tubes and is used to obtain an improved contrast and sharpness in the picture quality (Column 1, Lines 6-9). The SVM coil produces an electromagnetic field (Column 1, Lines 62-66). Thus, it would have been obvious at the time the invention was made to a person having ordinary skills in the art to incorporate a scan-velocity modulating coil, as taught by Priere, to produce an electromagnetic field and improve the contrast and sharpness of the picture quality.

Conclusion

7. Applicant's amendment necessitated the new ground(s) of rejection presented in this Office action. Accordingly, **THIS ACTION IS MADE FINAL**. See MPEP § 706.07(a). Applicant is reminded of the extension of time policy as set forth in 37 CFR 1.136(a).

A shortened statutory period for reply to this final action is set to expire THREE MONTHS from the mailing date of this action. In the event a first reply is filed within TWO MONTHS of the mailing date of this final action and the advisory action is not mailed until after

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the end of the THREE-MONTH shortened statutory period, then the shortened statutory period will expire on the date the advisory action is mailed, and any extension fee pursuant to 37 CFR 1.136(a) will be calculated from the mailing date of the advisory action. In no event, however, will the statutory period for reply expire later than SIX MONTHS from the date of this final action.

Response to Arguments

8. Applicant's arguments filed 3/11/03 have been fully considered but they are not persuasive.

Regarding applicants claim that Kazuaki does not disclose orienting slits relative to a magnetic field, examiner respectfully disagrees. The direction of the magnetic field is unclear when used as a reference direction. The direction of the magnetic field is out of the centering cup. Regardless of where the slits are positioned, they can be considered to be parallel or perpendicular to the direction of the magnetic field.

Contact Information

Any inquiry concerning this communication or earlier communications from the examiner should be directed to Holly Harper whose telephone number is (703) 305-7908. The examiner can normally be reached on Monday-Friday from 8:30 AM to 5:00 PM.

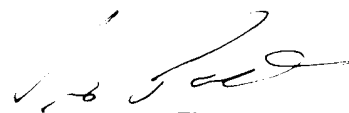
If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Nimesh Patel, can be reached on (703) 305-4794. The fax phone number for the organization where this application or proceeding is assigned is (703) 308-7382.

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Any inquiry of a general nature or relating to the status of this application or proceeding should be directed to the receptionist whose telephone number is (703) 308-0956.



Holly Harper
Patent Examiner
Art Unit 2879



VIP PATEL
PRIMARY EXAMINER